

Abbreviated Citation	Brandt (2001)
Full Citation	Brandt, Darren. 2001. Temperature Preferences and Tolerances for 137 Common Idaho Macroinvertebrate Taxa. Idaho Department of Environmental Quality. Coeur d'Alene, ID.
Description	Thermal optima and tolerance data were obtained from Idaho DEQ (Darren Brandt no longer works at Idaho DEQ, so Mary Anne Kosterman was our point of contact). Data were derived from Idaho DEQ bioassessment program samples collected from water bodies throughout Idaho. The Brandt (2001) report includes a list of cold water obligate taxa, which are based on Idaho's water quality criterium for cold water taxa (which is not to exceed a daily average stream temperature of 19°C).
Tolerance Calculations	Temperature weighted average calculations are based on samples that were likely collected from late May/early June through September. Several thousand instantaneous water temperature measurements were used to make weighted mean (which equate to thermal optima) and weighted standard deviation (which equate to thermal tolerance) calculations for the most common taxa found in Idaho. For more details, reference Brandt (2001) report.
Published	Yes (report)
Highest Level of Taxonomic Resolution	species
Point of Contact	Mary Anne Kosterman (Mary.Anne.Kosterman@deq.idaho.gov)
Data Integration Notes	Jen Stamp (Tetra Tech) added in ThermalOptima_Rank and ThermalTolerance_Rank entries so that data could be better compared across datasets. Rankings were calculated using a 1-7 scoring scheme based on the following percentiles: 0, 0.1, 0.25, 0.4, 0.6, 0.75, 0.9, 1, such that low ThermalOptima_Rank scores = preference for colder water and high ThermalOptima_Rank scores = preference for warmer water, and low ThermalTolerance_Rank scores = narrow temperature range and high ThermalTolerance_Rank scores = wide temperature range.